

Notice of Allowability

Application No.

10/020,872

Examiner

Andrew C. Lee

Applicant(s)

CHEON LEE, BYUNG

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1/29/2007.
2. ☒ The allowed claim(s) is/are 1-6, 10-24 renumbered 1-21.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Samuel W. Nitros on 4/11/2007.

The application has been amended as follows:

- Claim 19 has been amended as following:

19. (Currently Amended) A switching method of an AAL2 switch for multicast, the method comprising:

converting a received AAL2 packet into a common part sublayer (CPS) packet by demultiplexing the received AAL2 packet;

storing the CPS packet according to a routing information, the routing information indicating a predetermined memory address allocated for storing the CPS packet;

converting the stored CPS packet into an AAL2 packet, wherein the stored CPS packet contains a field configured to indicate multicast transmission using a two or more of a plurality of output ports of the AAL2 switch; and

transmitting the AAL2 packet to a plurality of different destinations using said two or more output ports according to said field.

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- Claim 20 has been amended as following:

20. (Currently Amended) The switching method of claim 19, wherein the routing information is generated based on a virtual path virtual channel (VPVC) and a channel identifier (CID) of the received AAL2 packet, and wherein a new VPVC is generated and stored based on the VPVC and the CID.

- Claim 23 has been amended as following:

23. (Currently Amended) The switching method of claim 22, wherein the converting the stored CPS packet into the AAL2 packet extracts the corresponding to an output port where the CPS packet is allocated by the periodically searching.

Reasons For Allowance

2. Claims 1 – 6, 10 – 24 are allowed over prior art.

The following is an examiner's statement of reasons for allowance:

The prior art of record, in single or in combination, does not disclose the limitation of "a plurality of memories configured to store CPS packets, said at least one CPS packet stored in one of the memories at a predetermined address indicated by a routing tag allocated to said at least one CPS packet by a corresponding one of the receiver circuits; wherein said one memory stores information indicating that said at least one CPS packet is to be multicast through two or more transmitter circuits and wherein the two or more transmitter circuits search the memories to locate the multicast information and transmit the AAL2 packet based on the search results" as disclosed in claim 1;

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"storing the CPS packet and the new VPVC according to the routing information, the routing information indicating one or more predetermined storage areas in a memory allocated for storing the CPS packet" as disclosed in claim 13; "storing the CPS packet according to a routing information, the routing information indicating a predetermined memory address allocated for storing the CPS packet" as disclosed in claim 19.

3. Additionally, all of the further limitations in claims 2 – 6, 10 – 12, 14 – 18, 20 – 24 are allowable since the claims are dependent upon the independent claims.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew C. Lee whose telephone number is (571) 272-3131. The examiner can normally be reached on Monday through Friday from 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing Chan can be reached on (571) 272-7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Andrew C. Lee/::<4/12/2007>

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